

DRAFT

TABLE R1

Reasonable Potential Analysis for Priority Pollutants JOS - Pomona WRP (CA0053619, Cl# 0755)

CTR#	DATE	Units	CV	MEC	CTR CRITERIA				Basin Plan	REASONABLE POTENTIAL ANALYSIS (RPA)					HUMAN HEALTH CALCS.			AQUATIC LIFE CALCULATIONS			
					Freshwater		Human Health			Title 22 GWR	Lowest C	Tier 1: MEC >= Lowest C	B	Tier 2 B>C & Eff. present	Tier 3 - other info. ?	Organisms Only			Freshwater		
					C acute = CMC tot	C chronic = CCC tot	applicable C hh W&O	C hh O								AMELhh = ECA = C hh O	MDEL/ AMEL multiplier	MDEL hh	ECA acute multiplier (SIPp.9)	LTA acute	ECA chronic multiplier
1	Antimony	µg/L	0.3	0.6	NONE	NONE	14	4300	6	6	NO		upstream								
2	Arsenic	µg/L	0.2	2.2	340	150	NONE	NONE	10	10	NO										
3	Beryllium	µg/L	0.6	0.07 DNQ	NONE	NONE	Narrative	Narrative	4	4	NO										
4	Cadmium*	µg/L	1.3	1.1	11	4.5	Narrative	Narrative	5	4.5	NO										
5a	Chromium III*	µg/L	0.6	3 DNQ	3250	390	Narrative	Narrative		390	NO										
5b	Chromium VI	µg/L	0.4	5.8 DNQ	16	11	Narrative	Narrative	50	11	NO										
6	Copper*	µg/L	0.2	7.07	29	18	1300	NONE		18	NO										
7	Lead**	µg/L	0.7	6	166		Narrative	Narrative		166	NO			TMDL WLA = 166 µg/L				0.281	46.646	0.481	
8	Mercury	µg/L	0.7	0.03 DNQ	reserved	reserved	0.05	0.051	2	0.051	NO			0.051	1.85	0.09435					
9	Nickel*	µg/L	1.1	5.19	900	100	610	4600	100	100	NO										
10	Selenium	µg/L	0.2	0.8 DNQ	Reserved		5	Narrative	50	5	NO			TMDL WLA = 5 µg/L				0.643	#####	0.797	
11	Silver*	µg/L	1.5	0.18 DNQ	15	none	NONE	NONE		15	NO										
12	Thallium	µg/L	0.6	0.03 DNQ	NONE	NONE	1.7	6.3	2	2	NO										
13	Zinc*	µg/L	0.2	110	230	230	none	NONE		230	NO										
14	Cyanide	µg/L	0.4	3.1 DNQ	22	5.2	700	220,000	200	5.2	NO										
17	Acrolein	µg/L	0.6	<2	NONE	NONE	320	780		780	NO										

DRAFT

TABLE R1

**Reasonable Potential Analysis for Priority Pollutants
JOS - Pomona WRP
(CA0053619, CI# 0755)**

CTR#	DATE	Units	LATIONS		AQUATIC LIFE CALCULATIONS				PROPOSED LIMITS		Recommendation
			LTA chronic	Lowest LTA	AMEL multiplier (n=4)	AMEL aq.life	MDEL multiplier (n=4)	MDEL aqlife	Lowest AMEL	Lowest MDEL	
1	Antimony	µg/L							--	--	Interim Monitoring - No CTR-based Limit
2	Arsenic	µg/L							--	--	Interim Monitoring - No CTR-based Limit
3	Beryllium	µg/L							--	--	Interim Monitoring - No CTR-based Limit
4	Cadmium*	µg/L							--	--	Deleted 5 µg/L Monthly Average limit previously found in Order No. R4-2004-0099 because no RPA. New monitoring data (new information) indicated indicated pollutant does not have RP to cause or contribute to an exceedance of the WQO. Antibacksliding Exemption is met. Require monitoring.
5a	Chromium III*	µg/L							--	--	Interim Monitoring - No CTR-based Limit
5b	Chromium VI	µg/L							--	--	Interim Monitoring - No CTR-based Limit
6	Copper*	µg/L							--	--	Interim Monitoring - No CTR-based Limit. Although the San Gabriel River Metals TMDL contains Dry Weather Copper WLA's for some reaches of the SGR, there is no Copper WLA assigned to the Pomona WRP no to the San Jose Creek Reach 1.
7	Lead**	µg/L	0	46.646	1.651	77.01255	3.559	166.0131	-- Not applicable	166	The the San Gabriel River Metals TMDL contains Wet Weather Lead WLA's for the SGR Reach 2. Since the Pomona WRP is upstream of Reach 2 of the SGR, the TMDL calls for a wet weather WLA for upstream discharges. Consistent with the TMDL implementation section, Permit writers translated the applicable Lead WLA into effluent limits for the Pomona WRP (a major NPDES permittee), by applying the median hardness of 175 mg/L, specified in the TMDL staff report (page 19, Table 3-4), and by following the effluent limitation procedures in Section 1.4 of the SIP. (A calculated CV of 0.7 was used). The TMDL specifies that only a Daily Max limit should be calculated for lead, under wet weather conditions.
8	Mercury	µg/L							--	--	Deleted 0.051 µg/L Monthly Average limit and 0.10 µg/L Daily Maximum limit previously found in Order No. R4-2004-0099 because no RPA. New monitoring data (new information) indicated indicated pollutant does not have RP to cause or contribute to an exceedance of the WQO. Antibacksliding Exemption is met. Require monitoring.
9	Nickel*	µg/L							--	--	Interim Monitoring - No CTR-based Limit
10	Selenium	µg/L	3.985	3.985	1.172	4.67042	1.554	6.19269	4.7	6.2	The San Gabriel River Metals TMDL contains a Dry Weather WLA for Selenium in Reach 1 of San Jose Creek, for the Pomona WRP, equal to 5 µg/L. Consistent with the TMDL implementation section, Permit writers translated the applicable Selenium WLA into effluent limits for the Pomona WRP (a major NPDES permittee), by applying the effluent limitation procedures in Section 1.4 of the SIP. (A calculated CV of 0.2 was used)
11	Silver*	µg/L									Interim Monitoring - No Limit
12	Thallium	µg/L									Interim Monitoring - No Limit
13	Zinc*	µg/L							--	--	Interim Monitoring - No CTR-based Limit. Although the San Gabriel River Metals TMDL contains Wet Weather Zinc WLA's for some reaches of the SGR, there is no Zinc WLA assigned to the Pomona WRP nor to the San Jose Creek Reach 1.
14	Cyanide	µg/L							--	--	Deleted 4.2 µg/L Monthly Average limit and 8.5 µg/L Daily Maximum limit previously found in Order No. R4-2004-0099 because no RPA. New monitoring data (new information) indicated pollutant is not present in the effluent. Require interim monitoring. Detected values prior to October 2006 were artificially generated as a result of the preservatives added to the sample. Discharger obtained ELAP certification to run a new test method which does not require the use of preservatives. Cyanide data, from November 2006 to the present, has been below the 5.2 µg/L CTR criteria. Cyanide data prior to November 2006 is not considered representative of the quality of effluent, and was therefore not used in the RPA determination.
17	Acrolein	µg/L									Interim Monitoring - No Limit

DRAFT

TABLE R1

Reasonable Potential Analysis for Priority Pollutants JOS - Pomona WRP (CA0053619, C# 0755)

CTR#	DATE	Units	CV	MEC	CTR CRITERIA				Basin Plan	REASONABLE POTENTIAL ANALYSIS (RPA)					HUMAN HEALTH CALCS.			AQUATIC LIFE CALCULATIONS			
					Freshwater		Human Health			Title 22 GWR	Lowest C	Tier 1: MEC >= Lowest C	B	Tier 2 B>C & Eff. present	Tier 3 - other info. ?	Organisms Only			Freshwater		
					C acute = CMC tot	C chronic = CCC tot	applicable C hh W&O	C hh O								AMELhh = ECA = C hh O	MDEL/ AMEL multiplier	MDEL hh	ECA acute multiplier (SIPp.9)	LTA acute	ECA chronic multiplier
18	Acrylonitrile	µg/L	0.6	<2	NONE	NONE	0.059	0.66		0.66	NO										
20	Bromoform	µg/L	0.4	0.8	NONE	NONE	4.3	360		360	NO										
23	Dibromochloromethane	µg/L	1.4	6	NONE	NONE	0.401	34		34	NO										
26	Chloroform	µg/L	0.6	25	NONE	NONE	Reserved	Reserved		Reserved	NA										
27	Dichlorobromomethane	µg/L	1.1	16	NONE	NONE	0.56	46		46	NO										
35	Methyl chloride	µg/L	0.6	0.2 DNQ	NONE	NONE	Narrative	Narrative		Narrative	NA										
36	Methylene chloride	µg/L	2.4	0.5	NONE	NONE	4.7	1,600		1,600	NO										
38	Tetrachloroethylene	µg/L	0.6	0.2 DNQ	NONE	NONE	0.8	8.85	5	5	NO										
39	Toluene	µg/L	0.3	0.2 DNQ	NONE	NONE	6800	200,000	150	150	NO										
55	2,4,6-triChlorophenol	µg/L	0.6	0.41 DNQ	NONE	NONE	2.1	6.5		6.5	NO										
62	Benzo(b)Fluoranthene	µg/L	0.6	0.021	NONE	NONE	0.0044	0.049		0.049	NO										
64	Benzo(k)Fluoranthene	µg/L	0.6	0.037	NONE	NONE	0.0044	0.049		0.049	NO										
68	Bis(2-Ethylhexyl) Phthalate	µg/L	0.6	5.3	NONE	NONE	1.8	5.9	4	4	YES										
74	Dibenzo(a,h)Anthracene	µg/L	0.6	0.016 DNQ	NONE	NONE	0.0044	0.049		0.049	NO										
77	1,4-Dichlorobenzene	µg/L	0.6	0.4 DNQ	NONE	NONE	400	2,600	5	5	NO										
79	Diethyl Phthalate	µg/L	0.6	0.6 DNQ	NONE	NONE	23000	120,000		120,000	NO										
96	N-Nitrosodimethylamine	µg/L	0.6	0.9	NONE	NONE	0.0007	8.1		8.1	NO										
105	gamma-BHC (aka Lindane)	µg/L	1.3	0.02	0.95	NONE	0.019	0.063	0.2	0.063	NO		NA	No							
FOOTNOTE:																					
*	These metals are hardness dependent. CTR criteria was calculated using the average effluent hardness of 215, because there is no receiving water station upstream of the Pomona WRP.																				
**	For lead, the 175 mg/L hardness was used, which corresponds to the 166 µg/L TMDL WLA, in the SGR Metals TMDL staff report (page 19).																				
	Note: Other priority pollutants not appearing on the list were not detected and had no reasonable potential to exceed the applicable CTR criteria. A separate RP analysis was conducted, under the TSD methodology, for pollutants that showed RP for non-CTR criteria.																				

DRAFT

TABLE R1

Reasonable Potential Analysis for Priority Pollutants JOS - Pomona WRP (CA0053619, C1# 0755)

CTR#	DATE	Units	LATIONS		AQUATIC LIFE CALCULATIONS				PROPOSED LIMITS		Recommendation	
			LTA chronic	Lowest LTA	AMEL multiplier (n=4)	AMEL aq.life	MDEL multiplier (n=4)	MDEL aqlife	Lowest AMEL	Lowest MDEL		
18	Acrylonitrile	µg/L								--	--	Deleted 0.66 µg/L Monthly Average and 1.3 µg/L Daily Maximum limits previously found in Order No. R4-2004-0099 because no RPA. New monitoring data (new information) indicated pollutant does not have RP to cause or contribute to an exceedance of the WQO. Only require monitoring.
20	Bromoform	µg/L										Interim Monitoring - No Limit
23	Dibromochloromethane	µg/L										Interim Monitoring - No Limit
26	Chloroform	µg/L										No Limit - No Criteria Available
27	Dichlorobromomethane	µg/L										Interim Monitoring - No Limit
35	Methyl chloride	µg/L										No Limit - No Criteria Available
36	Methylene chloride	µg/L										Interim Monitoring - No Limit
38	Tetrachloroethylene	µg/L								--	--	Deleted 5 µg/L Monthly Average limit previously found in Order No. R4-2004-0099 because no RPA. New monitoring data (new information) indicated pollutant does not have RP to cause or contribute to an exceedance of the WQO.Only require monitoring.
39	Toluene	µg/L										Interim Monitoring - No Limit
55	2,4,6-triChlorophenol	µg/L										Interim Monitoring - No Limit
62	Benzo(b)Fluoranthene	µg/L										Interim Monitoring - No Limit
64	Benzo(k)Fluoranthene	µg/L										Interim Monitoring - No Limit
68	Bis(2-Ethylhexyl) Phthalate	µg/L								4	--	Need Limit Tier 1. The effluent has RP to cause or contribute to an exceedance of the 4 µg/L Basin Plan WQO for Human Health protection associated with the designated GWR beneficial use for the surface water.
74	Dibenzo(a,h)Anthracene	µg/L										Interim Monitoring - No Limit
77	1,4-Dichlorobenzene	µg/L								--	--	Deleted 5 µg/L Monthly Average limit previously found in Order No. R4-2004-0099 because no RPA. New monitoring data (new information) indicated pollutant does not have RP to cause or contribute to an exceedance of the WQO.Only require monitoring.
79	Diethyl Phthalate	µg/L										Interim Monitoring - No Limit
96	N-Nitrosodimethylamine	µg/L								--	--	Deleted 8.1 µg/L Monthly Average and 16 µg/L Daily Maximum limits previously found in Order No. R4-2004-0099 because no RPA. New monitoring data (new information) indicated pollutant does not have RP to cause or contribute to an exceedance of the WQO. Only require monitoring.
105	gamma-BHC (aka Lindane)	µg/L								--	--	Interim Monitoring - No Limit
FOOTNOTE:												
*	These metals are hardness dependent. CTR criteria was calculated using the average effluent hardness of 215, because there is no receiving water station upstream of the Pomona WRP.											
**	For lead, the 175 mg/L hardness was used, which corresponds to the 166 µg/L TMDL WLA, in the SGR Metals TMDL staff report (page 19).											
	Note: Other priority pollutants not appearing on the list were not detected and had no reasonable potential to exceed the applicable CTR criteria. A separate RP analysis was conducted, under the TSD methodology, for pollutants that showed RP for non-CTR criteria.											